SARDAR PATEL UNIVERSITY
Programme: B.Sc (Chemistry)
Semester: V
Syllabus with effect from: June-2013

Paper Code: US05CCHE07	Total Credit: 2
Title Of Paper: Physical Chemistry Practical	

	Description in detail	
	Applications of pH metry	
1	To determine Molarity of strong / weak acid by titrating against 0.1 M NaOH solution	
2	The Dissociation Constant of weak monobasic acids like HAC, Formic acid, Benzoic acid by titrating against 0.1 M NaOH solution.	
3	To determine Molarity of each acid present in a Mixture of strong acid and weak acid.	
	Applications of Potentiometry	
4	To determine Molarity of strong / weak acid by titrating against 0.1 M NaOH solution	
5	The Dissociation Constant of weak monobasic acids like HAC, Formic acid, Benzoic acid by titrating against 0.1 M NaOH solution.	
6	To determine Molarity of each acid present in a Mixture of strong acid and weak acid.	
7	To determine the concentration of Silver Nitrate solution by titrating against 0.1 M NaCl / KCl solution.	
8	To determine Solubility and Solubility product of sparingly soluble salt AgCl.	
	Applications of Conductometry	
9	To determine Molarity of strong / weak acid by titrating against 0.1 M NaOH solution.	
10	To determine Molarity of each acid present in a Mixture of strong acid and weak acid.	
11	To determine the concentration of Silver Nitrate solution by titrating against 0.1 M NaCl / KCl solution.	
12	To determine Cell Constant of a given conductivity cell and solubility and solubility product of sparingly soluble salt ($CaSO_4$, $PbSO_4$)	
	Viva Voce	

Basic Text & Reference Books :-

- ➢ Experimental Physical Chemistry by R.C.Das & B.Behera
- ➢ Advanced Practical Physical Chemistry by J.B.Yadav